

Notice of Allowability

Application No.

10/614,350

Applicant(s)

GOTO ET AL.

Examiner

Art Unit

Ivan H. Carpio

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed 5/22/06.
2. ☒ The allowed claim(s) is/are 1-4,6-9,11 and 13-15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>6/28/06</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Tobias on 7/24/06.

The application has been amended as follows:

Specification amended as below:

-On page 4, line 1, "on at least the portion of the cap-shaped lip" should read "on at least the a portion of the ~~cap-shaped~~ lip".

-On page 7, line 3, "on at least the portion of the lip 4" should read "on at least the a portion of the lip 4".

Claims amended as below:

-Claim 1 [Currently Amended] A cap-shaped lid for use with a generally flat base to seal an electronic device comprising a top portion, a wall structure extending around an entire periphery of the top portion and having an upper end connected to the top portion and a lower end, a lip connected to the lower end of the wall structure around the entire periphery of the wall structure and extending

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outwards from an outer surface of the wall structure 10-500 μm , and a hot dipped solder layer formed on [applied to] an entire inner surface of the lid [on at least a portion of the lip].

-Claim 3 [Currently Amended] A lid as claimed in claim 1 wherein the top [surface] portion of the lid is polygonal.

-Claim 4 [Currently Amended] A lid as claimed in claim 1 wherein the wall structure extends substantially perpendicularly with respect to the top [surface] portion.

-Claim 5 [Cancelled]

-Claim 6 [Currently Amended] A packaged electronic part comprising a generally flat base, an electronic device mounted on a top surface of the base, and a cap-shaped lid according to claim 1 covering the electronic device and soldered to the top surface of the base and hermetically sealing the electronic device inside [the package] a package defined by the base and the lid.

-Claim 7 [Currently Amended] A method of manufacturing a cap-shaped lid as claimed in claim 1 comprising performing drawing of a metal sheet having a hot dipped solder layer formed on [a] an entire first side of the metal sheet to form a recessed shape including the top portion, the wall structure, and a flange extending outward from the wall structure with the first side of the metal strip on the interior of the recessed shape, and then severing the flange around and entire periphery of the recessed shape at a distance of 10-500 μm from the outer side of the wall structure to define the lip.

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-Claim 9 [Currently Amended] A method as claimed in claim 7 including severing the flange in apportion of the flange which is curved with respect to the wall structure.

-Claim 10 [Cancelled]

-Claim 12 [Cancelled]

-Claim 16 [Cancelled]

Allowable Subject Matter

Claims 1-4, 6 and 11-15 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(b), claims 7-9 are directed to the process of making allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because a claimed invention previously withdrawn from consideration under 37 CFR 1.142 has been rejoined, **the restriction requirement between groups I and II as set forth in the Office action mailed on 06/13/05 is hereby withdrawn.** In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claims including all the limitations of an allowable product claim or rejoined process claim are presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn,

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the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

The following is an examiner's statement of reasons for allowance: With regards to independent claims 1 and 7 there is simply no evidence in the prior art teaching a cap shaped lid with a lip connected to the lower end of the wall structure around an entire periphery of the wall structure and extending outwards from an outer surface of the wall structure by 10-500 μm , and a hot dipped solder layer formed on an entire inner surface of the lid as in the claimed combination, furthermore there is no evidence rendering this limitation obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ivan H. Carpio whose telephone number is 571-272-8396. The examiner can normally be reached on M-R 6:00am - 4:30pm.

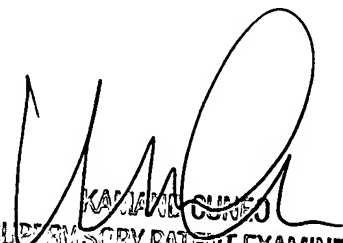
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The

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fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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